

ORGANIC ELECTROLYTE BATTERY

Pat nt Number: JP55146872
Publication date: 1980-11-15
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Requested Patent: ☐ JP55146872
Application Number: JP19790053721 19790501
Priority Number(s):
IPC Classification: H01M2/16; H01M6/16
EC Classification:
Equivalents:

Abstract

PURPOSE: To prevent the increase of internal resistance and the breakage of separator, by installing a separator made from a sheet consisting of specific glass fibers and polypropylene fibers etc. between the positive pole mix and negative pole mix.

CONSTITUTION: A specific organic electrolyte is poured mostly into the negative pole side and partly into the positive pole side. A separator 6 made from a non-woven cloth consisting of 50-80wt% glass fibers having 0.2-1μm diameter and 50-15wt% polypropylene or polyethylene fibers or a mixture of both is placed between the positive pole mix 2 and the negative pole mix 5. The periphery of this separator 6 is fixed under pressure between a gasket 4 and the positive pole mix 2. The separator 6 does not give rise to breakage and/or local thinning because of its extensibility and the decrease of discharge voltage can be protected by the good liquid retaining property, even when the central part 7 of the positive pole mix 2 deforms, as if it had stood out greatly, due to swelling at the last stage of discharge.

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